LISTING OF CLAIMS:

- 1. (Currently amended) An apparatus for use as a charger utilizing ambient energy comprising
 - a plurality of stacked piezoelectric elements,
 - a rectification block on an output of each of said elements,
 - a plurality of capacitors arranged to accumulate charge from said rectification blocks, and
 - a blocking diode provided at an output of said plurality of capacitors[[.]], and
 a signal phase delay element provided between said one or more of said
 rectification blocks and said plurality of capacitors.
- 2. (Original) The apparatus of claim 1, further comprising a charge storage device connected to an output of said blocking diode.
- 3. (Original) The apparatus of claim 1, wherein said rectification block is selected from the group consisting of a full-wave rectification block and a half-wave rectification block.
- 4. (Original) The apparatus of claim 1, comprising five or more stacked piezoelectric elements.
 - 5. (Canceled)
- 6. (Currently amended) The apparatus of claim 5 1, wherein said signal phase delay element comprises an inductor.
- 7. (Original) The apparatus of claim 2, wherein said charge storage device comprises a battery.
- 8. (Original) The apparatus of claim 2, wherein said charge storage device comprises a capacitor.
- 9. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power from gravitational effects on a structure rotating at an angle to the surface of a significant gravity source.
 - 10. (Original) The apparatus of claim 9, wherein said structure is a wheel.
 - 11. (Original) The apparatus of claim 9, wherein said angle is approximately 90 degrees.
 - 12. (Original) The apparatus of claim 9, wherein said gravity source is the earth.

- 13. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power from a heartbeat.
 - 14. (Original) The apparatus of claim 13, wherein said heartbeat is a human heartbeat.
- 15. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power available from local electrical fields.
- 16. (Original) The apparatus of claim 15, wherein said electric field comprise a field in the approximate range of 50 to 60 Hz.
- 17. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power available from low power sound energy.
- 18. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power available from ultrasound energy.
- 19. (Original) The apparatus of claim 1, wherein said apparatus incorporates circuit board technology.
- 20. (Original) The apparatus of claim 19, wherein said capacitors are not discrete elements.
- 21. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in ambient power available from RF spectrum energy fields.
- 22. (Original) The apparatus of claim 1, wherein said apparatus is optimized for changes in magnetic fields.
- 23. (Currently Amended) A method of manufacturing a charger utilizing ambient energy comprising

arranging a plurality of piezoelectric elements into a stack,
connecting a rectification block on an output of each of said elements,
arranging a plurality of capacitors to accumulate charge from said rectification
blocks, and

providing a blocking diode at an output of said plurality of capacitors[[.]], and providing a signal phase delay element between said one or more of said rectification blocks and said plurality of capacitors.

24. (Original) The method of claim 23, further comprising connecting a charge storage device to an output of said blocking diode.

- 25. (Original) The method of claim 23, wherein said step of arranging comprises providing said plurality of piezoelectric elements arranged in a stack according to size.
- 26. (Original) The method of claim 23, wherein said rectification block is selected from the group consisting of a full-wave rectification block and a half-wave rectification block.
- 27. (Original) The method of claim 23, comprising arranging five or more stacked piezoelectric elements.
 - 28. (Canceled)
- 29. (Currently amended) The method of claim 28 23, wherein said signal phase delay element comprises an inductor.
- 30. (Original) The method of claim 24, wherein said charge storage device comprises a battery.
- 31. (Original) The method of claim 24, wherein said charge storage device comprises a capacitor.
- 32. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power from gravitational effects on a structure rotating at an angle to the surface of a significant gravity source.
 - 33. (Original) The method of claim 32, wherein said structure is a wheel.
 - 34. (Original) The method of claim 32, wherein said angle is approximately 90 degrees.
 - 35. (Original) The method of claim 32, wherein said gravity source is the earth.
- 36. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power from a heartbeat.
 - 37. (Original) The method of claim 36, wherein said heartbeat is a human heartbeat.
- 38. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power available from local electrical fields.
- 39. (Original) The method of claim 38, wherein said electric field comprises a field in the approximate range of 50 to 60 Hz.
- 40. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power available from low power sound energy.
- 41. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power available from ultrasound energy.

- 42. (Original) The method of claim 23, further comprising incorporating circuit board technology in said charger.
 - 43. (Original) The method of claim 42, wherein said capacitors are not discrete elements.
- 44. (Original) The method of claim 23, further comprising optimizing said charger for changes in ambient power available from RF spectrum energy fields.
- 45. (Original) The method of claim 23, further comprising optimizing said charger for changes in magnetic fields.
 - 46. (New) An apparatus for use as a charger utilizing ambient energy comprising a plurality of stacked piezoelectric elements of different geometrical sizes stacked from smallest to largest,

a rectification block on an output of each of said elements,

a plurality of capacitors arranged to accumulate charge from said rectification blocks, and

a blocking diode provided at an output of said plurality of capacitors.

- 47. (New) The apparatus of claim 46, further comprising a charge storage device connected to an output of said blocking diode.
- 48. (New) The apparatus of claim 46, wherein said rectification block is selected from the group consisting of a full-wave rectification block and a half-wave rectification block.
- 49. (New) The apparatus of claim 46, comprising five or more stacked piezoelectric elements.
- 50. (New) The apparatus of claim 46, further comprising a signal phase delay element provided between said one or more of said rectification blocks and said plurality of capacitors.
- 51. (New) The apparatus of claim 46, wherein said signal phase delay element comprises an inductor.
- 52. (New) The apparatus of claim 47, wherein said charge storage device comprises a battery.
- 53. (New) The apparatus of claim 47, wherein said charge storage device comprises a capacitor.

- 54. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power from gravitational effects on a structure rotating at an angle to the surface of a significant gravity source.
 - 55. (New) The apparatus of claim 54, wherein said structure is a wheel.
 - 56. (New) The apparatus of claim 54, wherein said angle is approximately 90 degrees.
 - 57. (New) The apparatus of claim 54, wherein said gravity source is the earth.
- 58. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power from a heartbeat.
 - 59. (New) The apparatus of claim 58, wherein said heartbeat is a human heartbeat.
- 60. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power available from local electrical fields.
- 61. (New) The apparatus of claim 60, wherein said electric field comprise a field in the approximate range of 50 to 60 Hz.
- 62. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power available from low power sound energy.
- 63. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power available from ultrasound energy.
- 64. (New) The apparatus of claim 46, wherein said apparatus incorporates circuit board technology.
 - 65. (New) The apparatus of claim 64, wherein said capacitors are not discrete elements.
- 66. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in ambient power available from RF spectrum energy fields.
- 67. (New) The apparatus of claim 46, wherein said apparatus is optimized for changes in magnetic fields.
 - 68. (New) A method of manufacturing a charger utilizing ambient energy comprising arranging a plurality of piezoelectric elements of different geometrical sizes into a stack from largest to smallest,

connecting a rectification block on an output of each of said elements, arranging a plurality of capacitors to accumulate charge from said rectification blocks, and

providing a blocking diode at an output of said plurality of capacitors.

- 69. (New) The method of claim 68, further comprising connecting a charge storage device to an output of said blocking diode.
- 70. (New) The method of claim 68, wherein said rectification block is selected from the group consisting of a full-wave rectification block and a half-wave rectification block.
- 71. (New) The method of claim 68, comprising arranging five or more stacked piezoelectric elements.
- 72. (New) The method of claim 68, further comprising providing a signal phase delay element between said one or more of said rectification blocks and said plurality of capacitors.
- 73. (New) The method of claim 72, wherein said signal phase delay element comprises an inductor.
- 74. (New) The method of claim 69, wherein said charge storage device comprises a battery.
- 75. (New) The method of claim 69, wherein said charge storage device comprises a capacitor.
- 76. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power from gravitational effects on a structure rotating at an angle to the surface of a significant gravity source.
 - 77. (New) The method of claim 76, wherein said structure is a wheel.
 - 78. (New) The method of claim 76, wherein said angle is approximately 90 degrees.
 - 79. (New) The method of claim 76, wherein said gravity source is the earth.
- 80. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power from a heartbeat.
 - 81. (New) The method of claim 80, wherein said heartbeat is a human heartbeat.
- 82. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power available from local electrical fields.
- 83. (New) The method of claim 82, wherein said electric field comprises a field in the approximate range of 50 to 60 Hz.
- 84. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power available from low power sound energy.

- 85. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power available from ultrasound energy.
- 86. (New) The method of claim 68, further comprising incorporating circuit board technology in said charger.
 - 87. (New) The method of claim 86, wherein said capacitors are not discrete elements.
- 88. (New) The method of claim 68, further comprising optimizing said charger for changes in ambient power available from RF spectrum energy fields.
- 89. (New) The method of claim 68, further comprising optimizing said charger for changes in magnetic fields.